Product Name: Bifemelane hydrochloride
Catalog No.: 0767
Batch No.: 2
CAS Number: 62232-46-6
IUPAC Name: 4-(2-Benzylphenoxy)-N-methylbutylamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C_{18}H_{23}NO.HCl
- **Batch Molecular Weight:** 305.84
- **Physical Appearance:** White solid
- **Solubility:**
  - water to 100 mM
  - DMSO to 100 mM
- **Storage:** Desiccate at RT
- **Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

- **TLC:**
  - \( R_f = 0.4 \) (Chloroform:Methanol [5:1])
- **HPLC:**
  - Shows >99.8% purity
- **\(^1\)H NMR:**
  - Consistent with structure
- **Mass Spectrum:**
  - Consistent with structure
- **Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>Carbon</td>
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<tr>
<td>Hydrogen</td>
<td>7.91</td>
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<td>Nitrogen</td>
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<tr>
<td>Chlorine</td>
<td>11.59</td>
<td>11.64</td>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Bifemelane hydrochloride
CAS Number: 62232-46-6
IUPAC Name: 4-(2-Benzylphenoxy)-N-methylbutylamine hydrochloride

Description:
Bifemelane hydrochloride is an antidepressant MAO inhibitor. Reverses catalepsy induced by Tetrabenazine (Cat. No. 2175) in mice and increases locomotor activity in MPTP-treated marmosets.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₈H₂₃NO.HCl
Batch Molecular Weight: 305.84
Physical Appearance: White solid
Minimum Purity: ≥99%

Storage: Desiccate at RT

Solubility & Usage Info:
- water to 100 mM
- DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: